



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/522,704

01/28/2005

Tae-Joon Kim

AB-1406 US

1873

32605

7590

09/16/2008

MACPHERSON KWOK CHEN & HEID LLP
2033 GATEWAY PLACE
SUITE 400
SAN JOSE, CA 95110

EXAMINER

BRIGGS, NATHANAEL R

ART UNIT

PAPER NUMBER

2871

MAIL DATE

DELIVERY MODE

09/16/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/522,704	Applicant(s) KIM, TAE-JOON	
	Examiner NATHANAEL R. BRIGGS	Art Unit 2871	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 June 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3 and 6 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3 and 6 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see pages 3-5, filed 20 June 2008, with respect to the rejection(s) of claim(s) 1-3 and 6 under 35 USC § 103 have been fully considered and are persuasive, particularly in that Kim does not disclose a bottom pan. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of additional prior art.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. **Claims 1-3 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim (US 2002/0159001; heretofore Kim(1)) in view of Kim et al. (US 2005/0168930; heretofore Kim(2)), and in further view of Wakita (US 6,828,721).**

4. Regarding claim 1, Kim (1) discloses an LCD device (see figure 5, for instance) comprising: a back light assembly (250) that generates a first light to transform the first light into a second light having modulated optical characteristics; a receiving container (220) having sidewalls and a bottom face, and a bottom pan (231). However, Kim(1) does not expressly disclose the bottom face including a plurality of sockets for fixing the liquid crystal display device to an external member, the sockets each having different diameters including a smaller diameter entrance portion; or wherein the bottom pan has

Art Unit: 2871

projecting plugs each receivable into the sockets, or wherein the sockets being depressed below the bottom face, or wherein the projecting plugs have a substantially curved shaped portion.

5. Regarding claim 1, Kim(2) discloses an LCD device (see figures 4C and 6, for instance) comprising: a back light assembly (14) that generates a first light to transform the first light into a second light having modulated optical characteristics; a receiving container (21) having sidewalls and a bottom face, the bottom face including a plurality of sockets (23) for fixing the liquid crystal display device (10) to an external member, the sockets (17) each having different diameters including a smaller diameter entrance portion; the backlight assembly having tabs for embracing the sidewalls of the receiving container (21) and a plurality of projecting plugs (27) each receivable into the sockets (17).

6. It would have been obvious to one of ordinary skill in the art at the time the invention was made to affix the bottom pan to the receiving container as Kim (2) in the display of Kim(1). The motivation for doing so would have been to minimize display case size and maximize display area, as taught by Kim(2) ([0022]).

7. Regarding claim 1, Wakita discloses an LCD (see figures 12 and 14, for instance), wherein a bottom member (41) has sockets (44) each having different diameters including a smaller diameter entrance portion, depressed below the bottom face, having projecting plugs (45) having substantially curved shaped portion.

8. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the sockets and projecting plugs of Wakita in the LCD of

Art Unit: 2871

Kim(1) in view of Kim(2). The motivation for doing so would have been to easily position the display panel while making fixture and removal simpler and easier, as taught by Wakita (see column 1, lines 44-51). Claim 1 is therefore unpatentable.

9. Regarding claim 2, Kim(1) in view of Kim(2) in further view of Wakita discloses the LCD device of claim 1 (see Kim(1) figure 5, Kim(2) figures 4C and 6; Wakita figures 12 and 14, for instance), and Wakita further discloses wherein the sockets (44) each have a diameter corresponding to the curved shape portion of the projecting plugs (45). Claim 2 is therefore unpatentable.

10. Regarding claim 3, Kim(1) in view of Kim(2) in further view of Wakita discloses the LCD device of claim 1 (see Kim(1) figure 5, Kim(2) figures 4C and 6; Wakita figures 12 and 14, for instance), wherein the sockets (44) are formed at comers of the bottom face of the receiving container.

11. Regarding claim 6, Kim(1) in view of Kim(2) in further view of Wakita discloses the LCD device of claim 2 (see Kim(1) figure 5, Kim(2) figures 4C and 6; Wakita figures 12 and 14, for instance), and Wakita further discloses wherein the projecting sockets (44) each have a curved shape corresponding to the curved shape portion of the projecting plugs. Claim 6 is therefore unpatentable.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NATHANAEL R. BRIGGS whose telephone number is (571)272-8992. The examiner can normally be reached on 9 AM - 5:30 PM Monday through Friday.

Art Unit: 2871

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/N. R. B./
Examiner, Art Unit 2871

/Andrew Schechter/
Primary Examiner, Art Unit 2871